

List 3 – Determining Whether Hydraulic Modeling Report or PE Certification is Required

Typically, a hydraulic modeling report and a certification of the hydraulic modeling results by a Professional Engineer (PE) are both required as a part of the plan review process for **public drinking water projects** that are for new construction, water system expansions, and new public drinking water systems.

1. Hydraulic modeling report and certification may NOT be required if:
 - The water system is a transient system and R309-550-5(3) does not apply. *[R309-511-4(1); R309-550-5(3)(b) and (c)]*; **or**,
 - The water system is a non-transient non-community water system with system demand less than the requirement in R309-510 and does not provide water for fire suppression. *[R309-511-4(1)]*.

2. Hydraulic modeling report and PE certification are NOT required if the proposed project will not result in negative hydraulic impact. *[R309-511-4(1)(a)(i)(A) through (G)]*.
For example:
 - Addition of new sources.
 - Re-development of any spring or well source.
 - Adding disinfection, fluoridation, or other treatment facilities that do not adversely impact flow, pressure or water quality.
 - A change or addition of any primary coagulant water treatment chemical (excluding filter, flocculent or coagulant aids) when the proposed chemical does not appear on a list of chemicals pre-approved by the Director for a specific treatment facility.
 - Interior re-coating or re-lining of any raw or drinking water storage tank, or water storage chamber within any treatment facility.
 - Water main additions with no expansion of service (i.e. looping lines).
 - The "in-situ" re-lining of any pipeline.
 - Adding pump station(s) from source or storage upstream of distribution service connections.
 - Adding transmission lines to storage or sources without adding service connections.
 - Public drinking water projects that have negligible hydraulic impact as determined by the Director.

3. A hydraulic modeling report is not required but a PE certification is required if:
 - The project is part of a planned phase of a master plan previously approved by the Director. *[R309-511-4(1)(a)(ii)]*; **or**,
 - The water system has formally notified the Division of Drinking Water that this water system maintains and updates a hydraulic model of the system and designates a professional engineer who is responsible for overseeing the hydraulic analysis. *[R309-511-4(1)(a)(iii)]*.